

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ITW



In re Application of: Yann Echelard et al..

Serial No.: 10/619,055

Group No.: 1632

Filed: July 14, 2003

Examiner: Unknown

For: **METHOD FOR THE RAPID SELECTION OF HOMOZYGOS PRIMARY CELL LINES FOR THE PRODUCTION OF TRANSGENIC ANIMALS BY SOMATIC CELL NUICLEAR TRANSFER**

Attorney Docket Number: **GTC-208**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT  
WITHIN THREE MONTHS OF FILING APPLICATION OR BEFORE MAILING OF A  
FIRST OFFICE ACTION ON THE MERITS (37 CFR 1.97(b))**

**1. Authority**

Pursuant to 37 CFR § § 1.56 and 1.97-1.99, the Applicant cites to the Examiner documents containing information which, in good-faith judgment of the Applicant, may be relevant to the subject matter claimed in the above-identified application. The Applicant also encloses copies of the English-language cited documents.

In submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, or the extent of any search performed, or that more relevant information does not exist.

In submitting this Information Disclosure Statement, the Applicant makes no representation that any document cited in this Information Disclosure Statement is, or is considered to be prior art as defined by 35 USC § § 102 and 103.

**2. Time of Transmittal of Accompanying Information Disclosure Statement**

The Information Disclosure Statement transmitted herewith is being filed *after* three

**CERTIFICATE OF MAILING (37 CFR 1.8a)**

I hereby certify that on March 2, 2005 this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dawn C. Greenaway  
Dawn C. Greenaway

months of the filing date of this national application but *before* the mailing date of the first Office action on the merits.

It is Applicant's understanding that no fee is due; however, if the Applicant is incorrect, please charge any necessary fees for the above-captioned application to Deposit Account No. 502092.

The Applicant respectfully requests that:

- a. The Examiner consider the cited information in reaching a determination concerning the patentability of the pending claims; and
- b. The enclosed Form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application.

The person making this statement is the attorney who signs below on the basis of the information in the attorney's file.

Dated: 3/2/05

Respectfully submitted,

By: 

Byron V. Olsen, Reg. No. 42,960  
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number 10/619,055

Filing Date July 14, 2003

First Named Inventor Yann Echelard

Art Unit 1632

Examiner Name

Sheet 1 of 6

Attorney Docket Number GTC-208

## U.S. PATENT DOCUMENTS

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	Document Number		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)				
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## FOREIGN PATENT DOCUMENTS

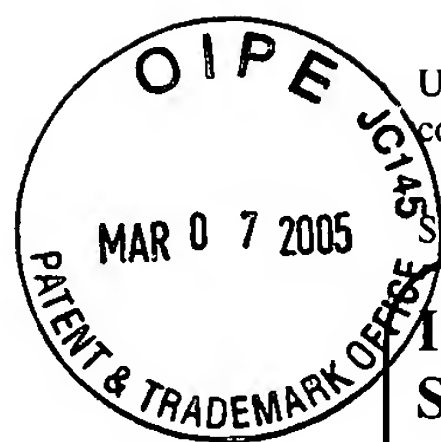
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		Country Code <sup>3</sup> - Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)						

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
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				<b>First Named Inventor</b>	Yann Echelard
				<b>Group Art Unit</b>	1632
				<b>Examiner Name</b>	
<b>Sheet</b>	2	of	6	<b>Attorney Docket Number</b>	GTC-208

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Alberio R, <i>et al.</i> , <i>Mammalian Oocyte Activation: Lessons from the Sperm and Implications for Nuclear Transfer</i> , INT J DEV BIOL 2001; 45: 797-809.	
		Arroyo, A. <i>et al.</i> , <i>In Vivo Roles Of Integrins During Leukocyte Development And Traffic: Insights From The Analysis Of Mice Chimeric For <math>\alpha_5</math>, <math>\alpha_v</math>, and <math>\alpha_4</math> Integrins</i> . THE JI 2000;165: 4667-4675.	
		Baguisi A, <i>et al.</i> , <i>Production of Goats by Somatic Cell Nuclear Transfer</i> , NAT BIOTECH 1999; 17: 4 56-461.	
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		Byrd, N, <i>et al.</i> , <i>Hedgehog Is Required For Murine Yolk Sac Angiogenesis</i> . DEVELOPMENT 2002; 129: 361-372.	
		Cibelli JB, <i>et al.</i> , <i>Cloned Transgenic Calves Produced From Nonquiescent Fetal Fibroblasts</i> . SCIENCE 1998; 280: 1256-1258.	
		Gavin, W.G., <i>Gene Transfer Into Goat Embryos</i> , TRANSGENIC ANIMALS – GENERATION AND USE, L. M. Houdebine ed., (Harwood Academic Publishers Gmbh., 1996).	
		Helgason, C <i>et al.</i> , <i>Targeted Disruption Of SHIP Leads To Hemopoietic Perturbations, Lung Pathology, And A Shortened Life Span</i> . GENES & DEV. 1998; 12: 1610-1620.	

Examiner Signature	Date Considered
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				<b>First Named Inventor</b>	Yann Echelard
				<b>Art Unit</b>	1632
				<b>Examiner Name</b>	
<b>Sheet</b>	3	<b>of</b>	6	<b>Attorney Docket Number</b>	GTC-208

		Hu, J.-F, et al., <i>Genomic Deletion Of An Imprint Maintenance Element Abolishes Imprinting Of Both Insulin-Like Growth Factor II And H19</i> . J. BIOL. CHEM. 1997; 272: 20715-20720.	
		Hwang, H.-Y, et al., <i>Creation Of Homozygous Mutants Of Leishmania Donovanii With Single Targeting Constructs</i> . J. BIOL. CHEM. 1996; 271: 30840-30846.	
		Jain, M, et al., <i>Targeted Inactivation Of Gα<sub>i</sub> Does Not Alter Cardiac Function Or β-Adrenergic Sensitivity</i> . AM. J. PHYSIOL. 2001; 280: 569H-575.	
		Kasinathan P, et al., <i>Effect of Fibroblast Donor Cell Age and Cell Cycle on Development of Bovine Nuclear Transfer Embryos In Vitro</i> , BIOL REPROD. 2001; 64(5): 1487-1493.	
		Kasinathan P, et al., <i>Production of Calves from G1 Fibroblasts</i> , NATURE BIOTECH 2001; 19: 1176-1178.	
		Klug, M, et al., <i>Genetically Selected Cardiomyocytes From Differentiating Embryonic Stem Cells Form Stable Intracardiac Grafts</i> . J. CLIN. INVEST. 1996; 98: 216-224.	
		Koike, H, et al., <i>Efficient Biallelic Mutagenesis With Cre/Loxp-Mediated Inter-Chromosomal Recombination</i> . EMBO REPORTS 2002; 3: 433-437.	
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		Lebel, M, et al., <i>A Deletion Within The Murine Werner Syndrome Helicase Induces Sensitivity To Inhibitors Of Topoisomerase And Loss Of Cellular Proliferative Capacity</i> . PROC. NATL. ACAD. SCI. U.S.A. 1998; 95: 13097-13102.	
		Lim, S, et al., <i>A Shortened Life Span Of EKLF-/- Adult Erythrocytes, Due To A Deficiency Of Beta -Globin Chains, Is Ameliorated By Human Gamma -Globin Chains</i> . BLOOD 1997; 90: 1291-1299.	
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		Mortensen, R, et al., <i>Production Of Homozygous Mutant ES Cells With A Single Targeting Construct</i> . MOL.CELL. BIOL. 1992; 12, 2391-2395.	
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		Soudais, C, et al., <i>Targeted Mutagenesis Of The Transcription Factor GATA-4 Gene In Mouse Embryonic Stem Cells Disrupts Visceral Endoderm Differentiation In Vitro</i> . DEVELOPMENT 1995; 121: 3877-3888.	
		Sowell, M et al., <i>Targeted Inactivation Of Alpha I2 Or Alpha I3 Disrupts Activation Of The Cardiac Muscarinic K+ Channel, IK+ACh, In Intact Cells</i> , PROC. NATL. ACAD. SCI. U.S.A. 1997; 94: 7921-7926.	
		Stanford, W, et al., <i>Expression Trapping: Identification Of Novel Genes Expressed In Hematopoietic And Endothelial Lineages By Gene Trapping In ES Cells</i> , BLOOD 1998; 92: 4622-4631.	
		Wall RJ, et al., <i>Transgenic Dairy Cattle: Genetic Engineering on a Large Scale</i> , J DAIRY SCI. 1997; 80(9): 2213-24.	
		Wilmut I, et al., <i>Viable Offspring Derived From Fetal and Adult Mammalian Cells</i> , NATURE 1997; 385: 810-813.	
		Wells DN, et al., <i>Production of Cloned Calves Following Nuclear Transfer with Cultured Adult Mural Granulosa Cells</i> , BIOL REPROD 1999; 60: 996-1005.	
		Wells, et al., <i>Cloning livestock: a return to embryonic stem cells</i> . Trends in Biotechnology. Vol. not known, no. not known, Month, not known, 1-4.	
		Weiss, M and Orkin, S, <i>In Vitro Differentiation Of Murine Embryonic Stem Cells New Approaches To Old Problems</i> . J. CLIN. INVEST. 1996; 97: 591-595.	
		Wu, Q, et al., <i>Generation And Characterization Of Mice Deficient In Hepsin, A Hepatic Transmembrane Serine Protease</i> . J. CLIN. INVEST. 1998; 101: 321-326.	

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Art Unit 1632

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Sheet 6 of 6

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		Yang X, et al., <i>Nuclear Totipotency of Cultured Rabbit Morulae to Support Full-Term Development Following Nuclear Transfer</i> , BIOL REPROD 1992; 47: 636-643.	
		Yong Z and L Yuqiang, <i>Nuclear-Cytoplasmic Interaction and Development of Goat Embryos Reconstructed by Nuclear Transplantation: Production of Goats by Serially Cloning Embryos</i> , BIOL REPROD. 1998; 58: 266-269.	
		Zou X, et al., <i>Generation Of Cloned Goats (Capra Hircus) From Transfected Foetal Fibroblast Cells, The Effect Of Donor Cell Cycle</i> , MOL REPROD DEV. 2002; 61: 164-172.	

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